



PATENT- FEE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re: Application of
MICHAEL L. SCHWEISS

Serial No.: 09/783,960

Filed: February 20, 2001

For: METHOD OF OPENING AND CLOSING
A BI-FOLD DOOR

Case Docket No.: S339.12.2

Group Art Unit 3634

Exr. B. Johnson

Handwritten: #10, 9/19/02

DRAWING AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Applicant requests that the following drawing amendment be approved by the Examiner.

IN FIGURE 10

--Extend bolt 83 through side plates 78 and 81; and

--Extend opposite ends of sleeve 77 to engage side plates 79 and 81.

A copy of the drawing including Figure 10 showing the amendments in red ink is enclosed.

Respectfully submitted,

MICHAEL L. SCHWEISS

By Richard O. Bartz
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6750 France Avenue South, Suite 350
Edina, MN 55435-1983
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NOT APPROVED
BY 9/23/02

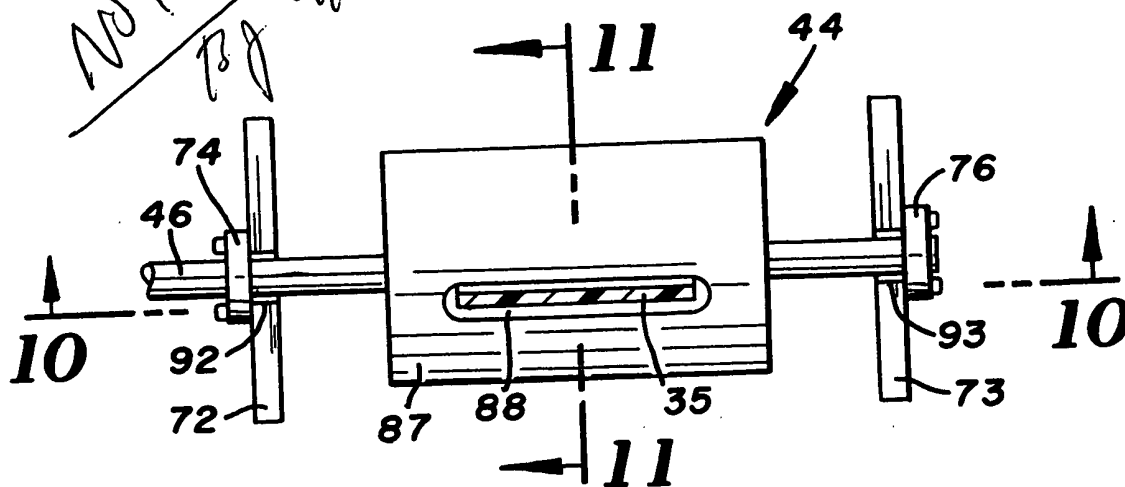


FIG. 9

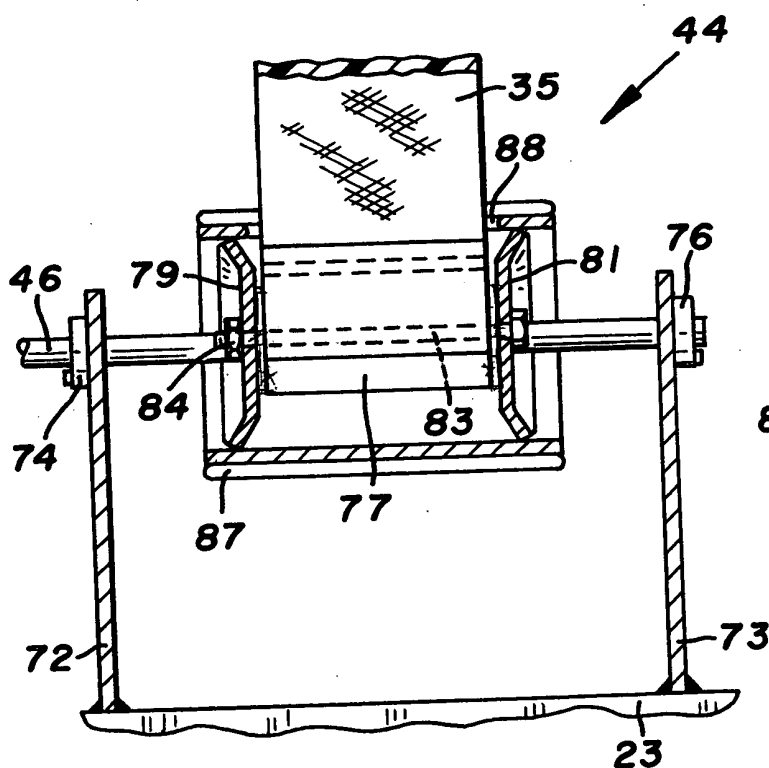


FIG. 10

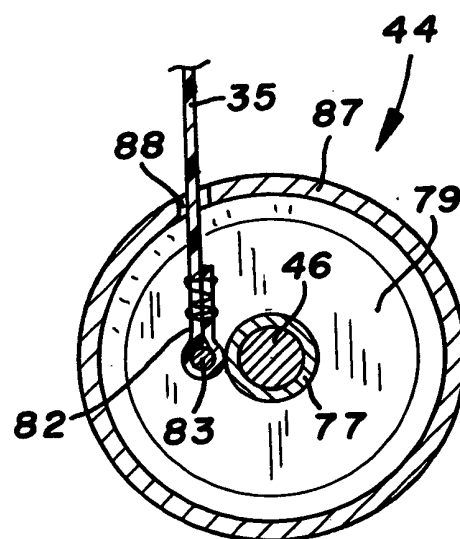


FIG. 11

'S NEW

Schweiss **BI-FOLD DOORS**

"LIFT STRAP" by **Schweiss**

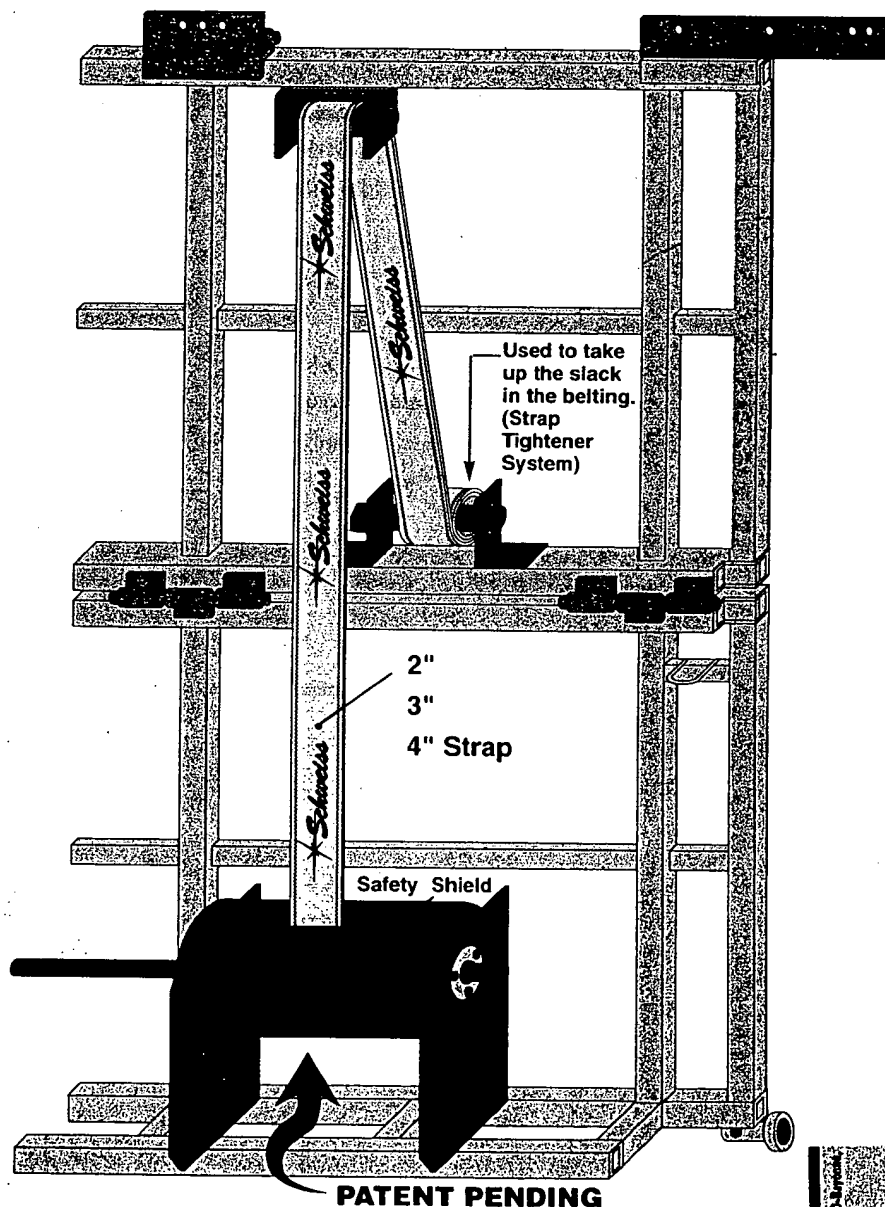


EXHIBIT
A

NEW

Schweiss **BI-FOLD DOORS**

"LIFT STRAP" by **Schweiss**

FASTER

**The "New Lift Straps" ...*

- ... increase the opening and closing speed of your Bi-Fold Doors.
- ... wrap on top of themselves - increasing the size of the lift drum which makes your Bi-Fold Door open and close faster.

SIMPLER

**The "New Lift Straps" ...*

- ... do all the heavy lifting, no more steel cables.
- ... have a longer working life than steel cables.
- ... are a clean, simple design that really works.

SAFER

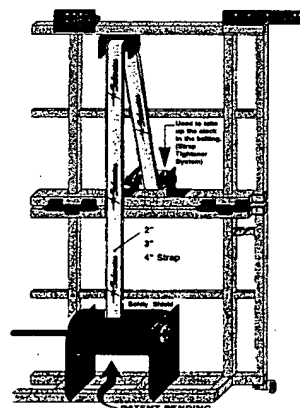
**The Special Designed "New Lift Straps" ...*

- ... are heavy duty and durable.
- ... have a 5:1 safety factor.
- ... require less maintenance.
- ... are safety shielded.

EASIER

**Easier to ...*

- ... replace the "New Lift Straps" - cut your time in half.
- ... line the inside of the Bi-Fold door, and more attractive.
- ... keep the "New Lift Straps" at the proper tension.



PATENT PENDING

Schweiss

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P.O. BOX 220

FAIRFAX, MN 55332

PHONE: 507-426-8273

FAX: 507-426-7408

New

Straps Versus Cables: The Real Advantages!!

- **LONGER LASTING** Straps never rust which requires less maintenance and they are easy to replace.
- **FLEXIBLE**..... Straps are very flexible - which means longer life span than cable.
- **QUIETER** Straps are 100% quieter and smoother running on the door.
- **SPEED** Straps will increase the opening/closing speed of the door due to the size of the drum circumference. The door is opened slowly at first then speeds up, a good safety feature.
- **ALIGNMENT** Straps never get tangled or criss crossed.
- **LOAD** Straps evenly distribute the load on the door versus cables.
- **LIFE** Straps will outlast cables by three times the life of cables.
- **TENSION** When it comes time to tighten the straps, it is easy to use a ratchet tightener.
- **COST** Cost of the straps are \$18.00 and cables are \$12.00.
- **WARRANTY** We offer a 5 Year Warranty on original lift straps.
- **CONVERTING**..... Schweiss has conversion kits available to adapt your present door with cable lift to the new "Lift Strap".

Number of Lift Straps

We use the same number of straps per door as we would cables - the number of cables or straps will vary depending on the size of the door. However the lift straps are rated to carry more weight, which means a better safety factor.



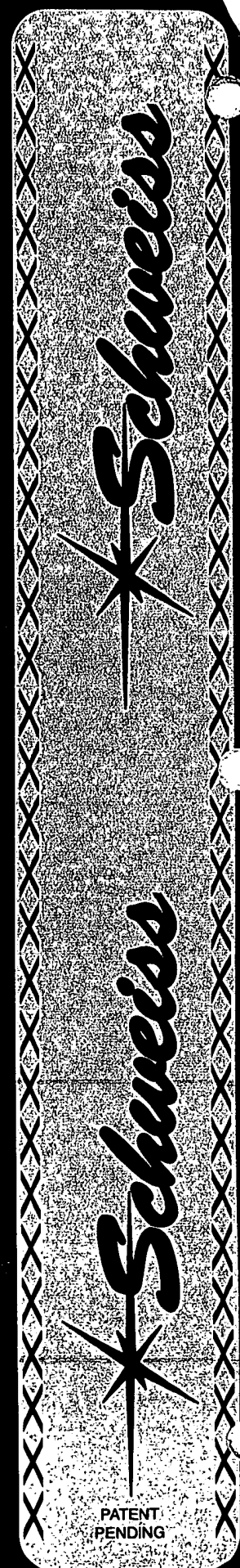
Schweiss
BI-FOLD DOORS

bifold.com

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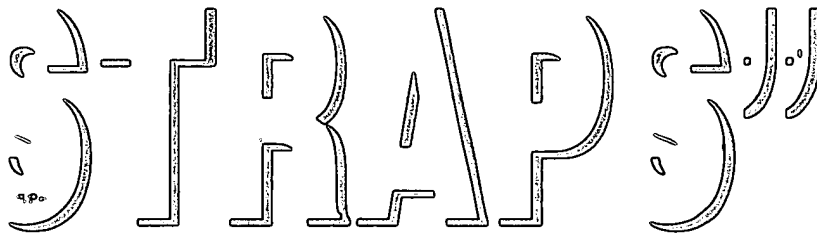
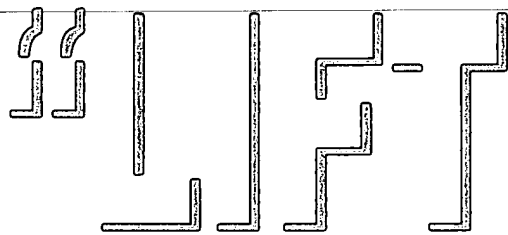
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Schweiss Bi-fold Doors



THE NEW

SPECIAL DESIGN



We are ready to shift gears at any point. This is the key to our success, whether it be marketing, designing or creating new products. With this attitude and flexibility we have introduced a new way to lift our bi-fold doors. Now available is our new, patent pending, "lift straps" that take the place of aircraft cables to raise and lower your door. The lift straps make our door **faster, easier, simpler** and **safer** than any other bi-fold door available to you on the market today. Schweiss Bi-fold Doors is constantly on the move, trying new and better ways, so our customers can enjoy the best money can buy at very affordable prices.

Schweiss

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EXHIBIT

B

TURN TO
NORMAL

AVAILON

DOORS

STYL

STYL

ATIONS

INSTALLATION

SAFETY

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IT'S NEW

"LIFT STRAP"

FASTER
SIMPLER
SAFER
EASIER

by

Schweiss

FASTER

"The 'New Lift Straps' ...

- increase the opening and closing speed of your Bi-Fold Doors.
- wrap on top of themselves - increasing the size of the lift drum which makes your Bi-Fold Door open and close faster.

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"The 'New Lift Straps' ...

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- have a longer working life than steel cables.
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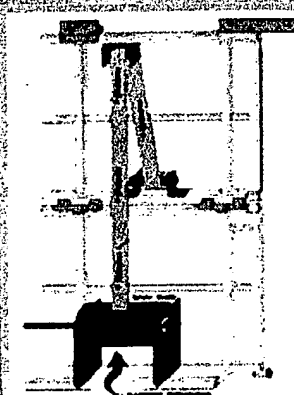
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- have a 5:1 safety factor.
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EASIER

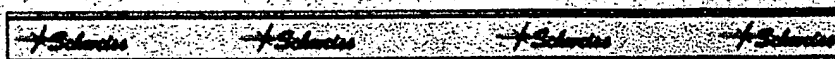
"Easier to ...

- replace the "New Lift Straps" - cut your time in half.
- line the inside of the Bi-Fold Door, and more attractive.
- keep the "New Lift Straps" at the proper tension.



Click on the above graphic to get a larger picture in a new window. Close the new window when done viewing.

PATENT PENDING



Original Press Release

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DESIGNED

How does the **New "LIFT STRAP"** work?

How? The strap wraps around the lift drum as the door opens, increasing the size of the drum. The larger the drum's circumference the faster the door opens. It's ideal: the door opens slowly at first and quickly picks up speed, a nice safety feature. "It's a clean, strong design." "It's quiet, it's simple and the door opens faster."

The "Lift Straps" are available in 2", 3", 4" and 6" widths, depending on the door size. Schweiss has conversion kits available to adapt your present door with the cable lifts to the new "Lift Strap."

With the new "Lift Strap", Schweiss also offers a new strap tightener system which takes up the slack in the belting. This is a real nice feature for keeping the proper tension on the "Lift Straps".

Schweiss is always trying to improve our bi-fold doors and have applied for a patent on the new "Lift Strap" design.

You may special order your new lift straps with your next Schweiss Bi-fold Door order.

Facts:

- All straps are polyester making it more durable and longer-lasting than steel cables.
- Straps stretch up to 3%.
- In cold weather the straps get stronger.
- Performance is not affected when the straps are wet.
- Different width of straps include 2", 3", 4" and 6".

Strap Strength Factor:

- Safety factor on the straps is well over the 5:1 safety factor.
 - Strength to weight ratio on our straps is extremely high.
- Example: 3" straps - are rated at 29,400 lbs.
1/4" cables are rated at 7,200 lbs.

Customer Comments:

- Why didn't you think of the new "Lift Straps" sooner?
- We like the way the straps look.
- The straps are quieter running and the door goes up and down smoothly.
- Simple Tightening Mechanism: it takes all the work out of keeping the proper tension on your new Lift Straps.
- I wish our old doors could be converted over - most of them can be switched to straps.



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